PCT

国際調査報告

(法第8条、法施行規則第40、41条) [PCT18条、PCT規則43、44] 2004 10 13

出願人又は代理人 の書類記号 PA5341PCT	今後の手続きについては、様式PCT/ISA/220 及び下記5を参照すること。
国際出願番号 PCT/JP2004/009048	国際出願日 (日.月.年) 21.06.2004 (日.月.年) 03.07.2003
出願人 (氏名又は名称) 株式会社 東	海
国際調査機関が作成したこの国際調査 この写しは国際事務局にも送付される	報告を法施行規則第41条(PCT18条)の規定に従い出願人に送付する。 。
この国際調査報告は、全部で3	_ ページである。
この調査報告に引用された先行打	支術文献の写しも添付されている。
·	ほか、この国際出願がされたものに基づき国際調査を行った。 出された国際出願の翻訳文に基づき国際調査を行った。
b. この国際出願は、ヌクレオ	チド又はアミノ酸配列を含んでいる(第I欄参照)。
2. 請求の範囲の一部の調査が	できない(第Ⅱ欄参照)。
3. ② 発明の単一性が欠如してい	る(第皿欄参照)。
4. 発明の名称は ※ 出願	人が提出したものを承認する。
□ 次に	示すように国際調査機関が作成した。
5. 要約は ※ 出願	人が提出したものを承認する。
国際	欄に示されているように、法施行規則第47条(PCT規則38.2(b))の規定により 調査機関が作成した。出願人は、この国際調査報告の発送の日から1カ月以内にこ 際調査機関に意見を提出することができる。
 6. 図面に関して	
a. 要約書とともに公表される図は	、 出願人が示したとおりである。
× t	出願人は図を示さなかったので、国際調査機関が選択した。
	ド図は発明の特徴を一層よく表しているので、国際調査機関が選択した。
b. 要約とともに公表される図	はない。

A. 発明の属する分野の分類(国際特許分類(IPC))

Int. Cl' H01M8/04, H01M8/10, B65D83/14

B. 調査を行った分野

調査を行った最小限資料(国際特許分類(IPC))

Int. Cl' H01M8/04, H01M8/10, B65D83/14

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報

1922-1996年

日本国公開実用新案公報

1971-2004年

日本国登録実用新案公報

1994-2004年

日本国実用新案登録公報

1996-2004年

国際調査で使用した電子データベース(データベースの名称、調査に使用した用語)

<u>C.</u> 関連する	ると認められる文献		U
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号	T
X A	JP 2001-93551 A (株式会社東芝) 2001.04.06, 段落0027, 段落0028, 段落0041, 段落0048, 図7, 図12 & US 6506513 B1 & EP 1087455 A2	3-5	COTY
A	JP 2001-313047 A (株式会社ユアサコーポレーション) 2001.11.09, 段落0020, 図3 (ファミリーなし)	1-3, 5	

× C欄の続きにも文献が列挙されている。

パテントファミリーに関する別紙を参照。

- * 引用文献のカテゴリー
- 「A」特に関連のある文献ではなく、一般的技術水準を示す
- 「E」国際出願日前の出願または特許であるが、国際出願日 以後に公表されたもの
- 「L」優先権主張に疑義を提起する文献又は他の文献の発行 日若しくは他の特別な理由を確立するために引用する 文献(理由を付す)
- 「O」ロ頭による開示、使用、展示等に言及する文献
- 「P」国際出願日前で、かつ優先権の主張の基礎となる出願

- の日の後に公表された文献
- 「T」国際出願日又は優先日後に公表された文献であって 出願と矛盾するものではなく、発明の原理又は理論 の理解のために引用するもの
- 「X」特に関連のある文献であって、当該文献のみで発明 の新規性又は進歩性がないと考えられるもの
- 「Y」特に関連のある文献であって、当該文献と他の1以 上の文献との、当業者にとって自明である組合せに よって進歩性がないと考えられるもの
- 「&」同一パテントファミリー文献

国際調査を完了した日 27.09.2004	国際調査報告の発送日 12.10.2004
国際調査機関の名称及びあて先 日本国特許庁 (ISA/JP)	特許庁審査官(権限のある職員) 守安 太郎
郵便番号100-8915 東京都千代田区霞が関三丁目4番3号	電話番号 03-3581-1101 内線 6721

C(続き).	関連すると認められる文献	
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
A	JP 4-223058 A(アイシン・エイ・ダブリユ株式会社) 1992.08.12, 段落0011, 段落0013, 段落0014, 図2 (ファミリーなし)	1-3, 5
A	JP 2003-109633 A (フォーメックス エル ピー) 2003.04.11, 段落0057, 図22 & WO 03/003493 A1	1-3, 5
A	US 2002/0127141 A1 (William P. Acker) 2002.09.12, 図2 (ファミリーなし)	1-3, 5 Q
ЕУ	JP 2004-206994 A (株式会社ルネサステクノロジ) 2004.07.22, 段落0008-0014, 図1-3 (ファミリーなし)	ST AVAIL ABLE
ЕУ	JP 2004-193059 A (日立マクセル株式会社) 2004.07.08, 段落0026-0043, 図1-3 (ファミリーなし)	4 COPY
A	JP 2001-342898 A (横浜ゴム株式会社) 2001.12.14 (ファミリーなし)	1-3, 5
A	JP 8-506553 A (ガゼル, シャルル) 1996.07.16 & WO 95/15895 A1 & US 5730326 A	1-3, 5
A	JP 2002-529243 A (ウォーターフォール カンパニー, インコーポレイテッド) 2002.09.10 & WO 00/29192 A2	4
A	JP 2000-81156 A (株式会社ソフト九九コーポレーション) 2000.03.21 (ファミリーなし)	4

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/009048

According to International Patent Classification (PC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched classification system followed by classification symbols) Int.C1 ² HO1M8/04, HO1M8/10, B65D83/14 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Tozoka Jitsuyo Shinan Tozoku Koho 1994-2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X. JF 2001-93551 A (Toshiba Corp.), 3-5 A 06 April, 2001 (06.04.01), Par. Nos. [00271, [0028], [0041], [0048]; Figs. 7, 12 A 08 6506513 B1 & EP 1087455 A2 A JF 2001-313047 A (Yuasa Corp.), 1-3,5 A JF 2001-313047 A (Yuasa Corp.), 1-3,5 Op November 2, 2001 (09.11).01), Par. No. [0020]; Fig. 3 (Family: none) A JF 4-223058 A (Alsin AW Co., Ltd.), 1-3,5 IF are international filing date or promite to be of particular relevance to the origination and the publication of about a critical relevance of the comment and the publication of the international filing date or promite decomment of the publication of the international filing date to promite to the formation and the publication of the international filing date to promite to the formation and the special reason (as specified) and the publication of the international filing date to promite to the formation and the special reason (as specified) and the publication of the international filing date to promite to the formation and the special reason (as specified) and the publication of the international filing date to promite the publication of the international filing date to promite the publication of the international filing date to promite the publication of the international search and promite the publication of the international search an		CATION OF SUBJECT MATTER 7 H01M8/04, H01M8/10, B65D83/1		20047009048
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl? H01M8/04, H01M8/10, B65D83/14 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Toroku Jitsuyo Shinan Koho 1994–2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X. JP 2001–93551 A (TO.Shilba Corp.), A 06 April, 2001 (06.04.01), Par. Nos. [0027]; [0028], [0041], [0048]; Figs. 7, 12 6. US 6506513 B1 & EP 1087455 A2 A JP 2001–313047 A (Yuasa Corp.), O9 November, 2001 (09.11.01), Par. No. [0020]; Fig. 3 (Family: none) A JF 4–223058 A (Aisin AW Co., Ltd.), 12 August, 1992 (12.08.92), Par. Nos. [0011], [0013], [0014]; Fig. 2 [Yenther documents are listed in the continuation of Box C. See patent family annex. The document defining the general tast of the art which is not considered to of particular relevance. "A document defining the general tast of the art which is not considered to of particular relevance. "A document defining the general tast of the art which is not considered to establish the publication of patent in the priority date claims of the comment of the comment of the priority date claims of the comment of the priority date claims of the comment of the priority date claims of the comment of the	According to In	ternational Patent Classification (IPC) or to both nation	nal classification and IPC	
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C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X	Jitsuyo Kokai J	Shinan Koho 1922-1996 To itsuyo Shinan Koho 1971-2004 J	oroku Jitsuyo Shinan Koho itsuyo Shinan Toroku Koho	1994-2004 1996-2004
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X		ouse consisted carring the international scarcii (maine or	data base and, where practicable, scaren to	ins used)
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A JP 4-223058 A (Aisin AW Co., Ltd.), 12 August, 1992 (12.08.92), Par. Nos. [0011], [0013], [0014]; Fig. 2 Further documents are listed in the continuation of Box C. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlie application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other special reason (as specified) Date of the actual completion of the international filing date but later than the priority date claimed Date of the actual completion of the international search 27 September, 2004 (27.09.04) Name and mailing address of the ISA/ Authorized officer	_	06 April, 2001 (06.04.01), Par. Nos. [0027], [0028], [00 Figs. 7, 12	041], [0048];	
Turther documents are listed in the continuation of Box C. See patent family annex.	A	09 November, 2001 (09.11.01) Par. No. [0020]; Fig. 3	o.),	1-3,5
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 27 September, 2004 (27.09.04) Name and mailing address of the ISA/ Authorized officer "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention but cited to understand the principle or theory underlying the invention but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 12 October, 2004 (12.10.04)	A	12 August, 1992 (12.08.92), Par. Nos. [0011], [0013], [00		1-3,5
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 27 September, 2004 (27.09.04) Name and mailing address of the ISA/ Authorized officer "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "W" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "W" document member of the same patent family Date of mailing of the international search report 12 October, 2004 (12.10.04)	× Further do	ocuments are listed in the continuation of Box C.	See patent family annex	
"P" document published prior to the international filing date but later than the priority date claimed "A" being obvious to a person skilled in the art document member of the same patent family Date of the actual completion of the international search 27 September, 2004 (27.09.04) Date of mailing of the international search report 12 October, 2004 (12.10.04) Name and mailing address of the ISA/ Authorized officer	* Special cate "A" document d to be of part "E" earlier applie filing date "L" document w cited to este special reaso	gories of cited documents: efining the general state of the art which is not considered cicular relevance cation or patent but published on or after the international which may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other on (as specified)	"T" later document published after the inte date and not in conflict with the application the principle or theory underlying the ir document of particular relevance; the considered novel or cannot be considered to involve an inventive of considered to involve an inventive of the considered to involve and the considered to involve an inventive of the considered to inventive of the considered to inventive o	ation but cited to understand invention laimed invention cannot be dered to involve an inventive laimed invention cannot be step when the document is
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Facsimile No. Telephone No. Form PCT/ISA/210 (second sheet) (January 2004)	Japanes	se Patent Office	Authorized officer	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/009048

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim	No
A	JP 2003-109633 A (FOAMEX L.P.), 11 April, 2003 (11.04.03), Par. No. [0057]; Fig. 22 & WO 03/003493 A1	1-3,5	
A	US 2002/0127141 A1 (William P.Acker), 12 September, 2002 (12.09.02), Fig. 2 (Family: none)	1-3,5	
Е, Ү	JP 2004-206994 A (Kabushiki Kaisha Runesasu Technology), 22 July, 2004 (22.07.04), Par. Nos. [0008] to [0014]; Figs. 1 to 3 (Family: none)	- 4 - 4	BESTA
Е, Ү	JP 2004-193059 A (Hitachi Maxell, Ltd.), 08 July, 2004 (08.07.04), Par. Nos. [0026] to [0043]; Figs. 1 to 3 (Family: none)	4	BEST AVAILABLE OF
А	JP 2001-342898 A (The Yokohama Rubber Co., Ltd.), 14 December, 2001 (14.12.01), (Family: none)	1-3,5	(
A	JP 8-506553 A (Kaeser, charles), 16 July, 1996 (16.07.96), & WO 95/15895 A1 & US 5730326 A	1-3,5	
A	JP 2002-529243 A (Waterfall Co., Inc.), 10 September, 2002 (10.09.02), & WO 00/29192 A2	4	
A	JP 2000-81156 A (Kabushiki Kaisha Soft Kuku Corp.), 21 March, 2000 (21.03.00), (Family: none)	4	